NOVEMBER/DECEMBER 2024

CEIM64C/BEIM64C — OPERATING SYSTEMS

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Summarize the term operating system operation.
2. Define Scheduling.
3. Describe the time sharing operating system.
4. Extend the concepts used in Deadlock.
5. What is external fragmentation?
6. What is internal fragmentation?
7. List out the various file operations.
8. Define file.
9. Summarize the term kernel.
10. Describe UNIX OS.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss briefly about the objectives and functions of operating systems.

Or

(b) Differentiate distributed systems from multiprocessor system.

12. (a) Explain the Shortest job first scheduling algorithm with an example.

Or

(b) Describe the different multithreading models with an example.

13. (a) Differentiate local page replacement algorithm from global page replacement algorithm.

Or

(b) Discuss briefly about the advantages and disadvantages of paging.

14. (a) Explain about file attributes, file operations, and file types.

Or

(b) Write notes on indexed file, indexed sequential file organization.

15. (a) Examine the advantages of LINUX/UNIX operating system over Windows.

Or

(b) Write notes on the following UNIX Command:

(i) cp

(ii) mkdi

(iii) rmwho

(iv) cd.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the working of distributed operating system with a neat diagram.

17. Elaborate the process of three types of scheduling queues.

18. Identify and explain the concepts of pages and frames.

19. Examine in detail about disadvantages of Linked Allocation.

20. Conclude your views on LINUX operating system.

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